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WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO



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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**COLORADO STATE UNIVERSITY EXPERIMENT STATION
STATE ENGINEER of COLORADO
and STATE ENGINEER of NEW MEXICO**

AS OF
APR. 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,
Alaska snow course.*

U. S. PHOTO A-772-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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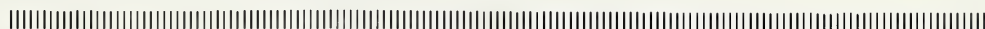
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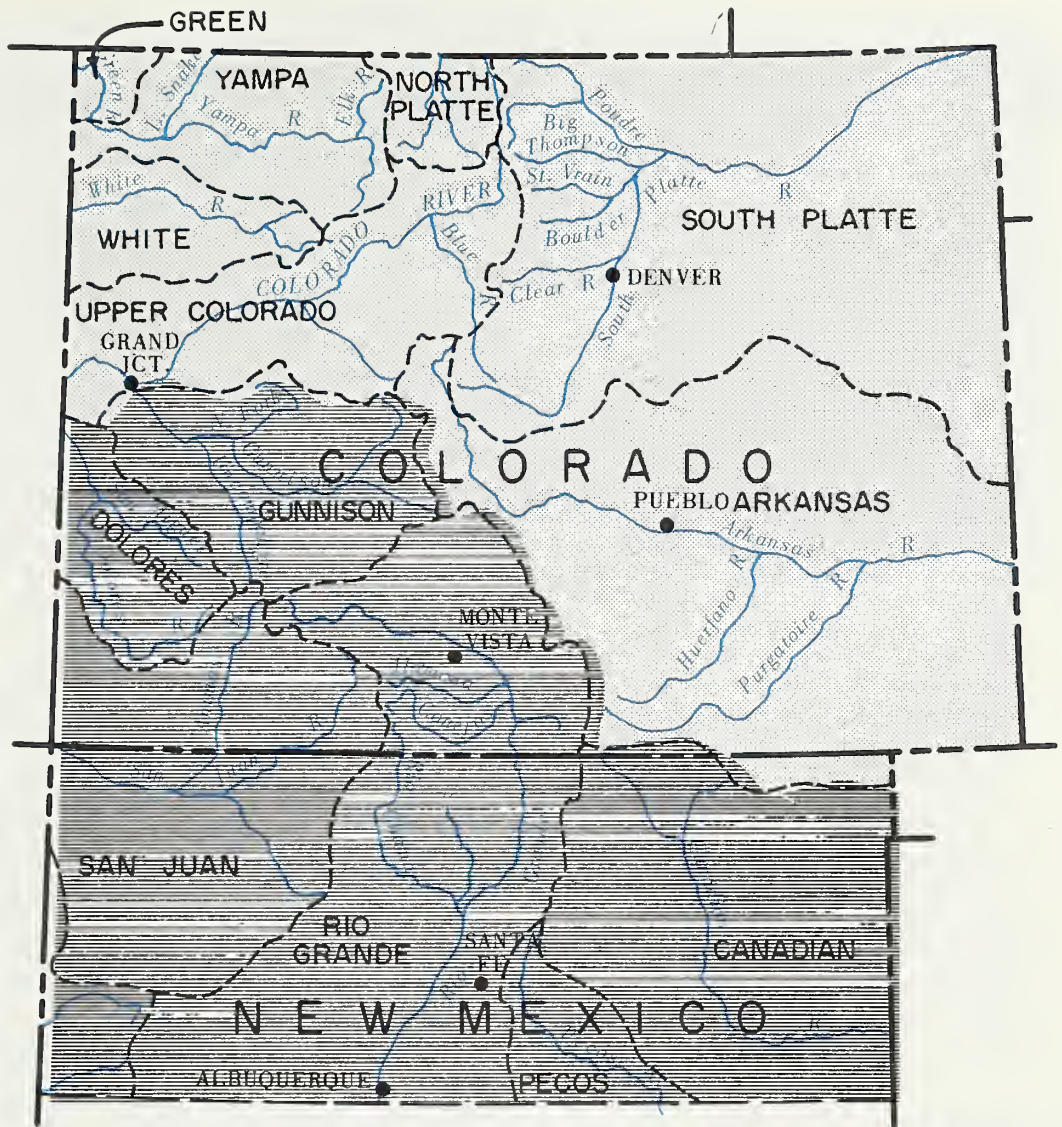
WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

WATERSHED I	- SOUTH PLATTE RIVER WATERSHED
	Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts.
WATERSHED II	- ARKANSAS RIVER WATERSHED
	Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.
WATERSHED III	- RIO GRANDE WATERSHED (COLORADO)
	Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.
WATERSHED IV	- RIO GRANDE WATERSHED (NEW MEXICO)
	Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.
WATERSHED V	- DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED
	Describes water supply conditions in San Miguel Basin. Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.
WATERSHED VI	- GUNNISON RIVER WATERSHED
	Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.
WATERSHED VII	- COLORADO RIVER WATERSHED
	Describes water supply conditions in DeBeque, Plateau Valley, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, South Side, and Mt. Sopris Soil Conservation Districts.
WATERSHED VIII	- YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED
	Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.
WATERSHED IX	- LOWER SOUTH PLATTE RIVER WATERSHED
	Describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.
APPENDIX I	- SNOW SURVEY MEASUREMENTS
APPENDIX II	- SOIL MOISTURE MEASUREMENTS

WATER SUPPLY OUTLOOK

as of

APRIL 1, 1974



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

WATER SUPPLY CONDITIONS

as of

APRIL 1, 1974

SNOWFALL WAS DEFICIENT DURING MARCH IN BOTH STATES AND ESPECIALLY IN NORTHERN NEW MEXICO AND SOUTHERN COLORADO. SNOW COURSES THAT WERE WELL ABOVE AVERAGE AS OF MARCH 1st ARE NOW BELOW NORMAL. SOME COURSES IN NEW MEXICO ARE SUBSTANTIALLY BELOW NORMAL. FORECASTS ARE BASED ON AVERAGE PRECIPITATION FOR THE REMAINDER OF THE YEAR, BUT A NUMBER OF AREAS WILL NEED ADDITIONAL SNOW TO INSURE ADEQUATE WATER THIS SUMMER.



COLORADO

THE SNOW IN NORTHERN COLORADO IS WELL ABOVE AVERAGE, BUT STARTS TO DIMINISH TO THE SOUTH AND BY THE STATE LINE IS CONSIDERABLY BELOW NORMAL. SNOW IN THE SAN JUAN AND RIO GRANDE BASINS IS ONLY ABOUT 75% OF THE 1958-72 AVERAGE. CARRY-OVER STORAGE IS GOOD THROUGHOUT THE STATE AND WILL PROVIDE AN EXCELLENT SUPPLEMENT. SOIL MOISTURE CONDITIONS RANGE FROM GOOD IN THE NORTH TO FAIR TO POOR IN THE SOUTH.



NEW MEXICO

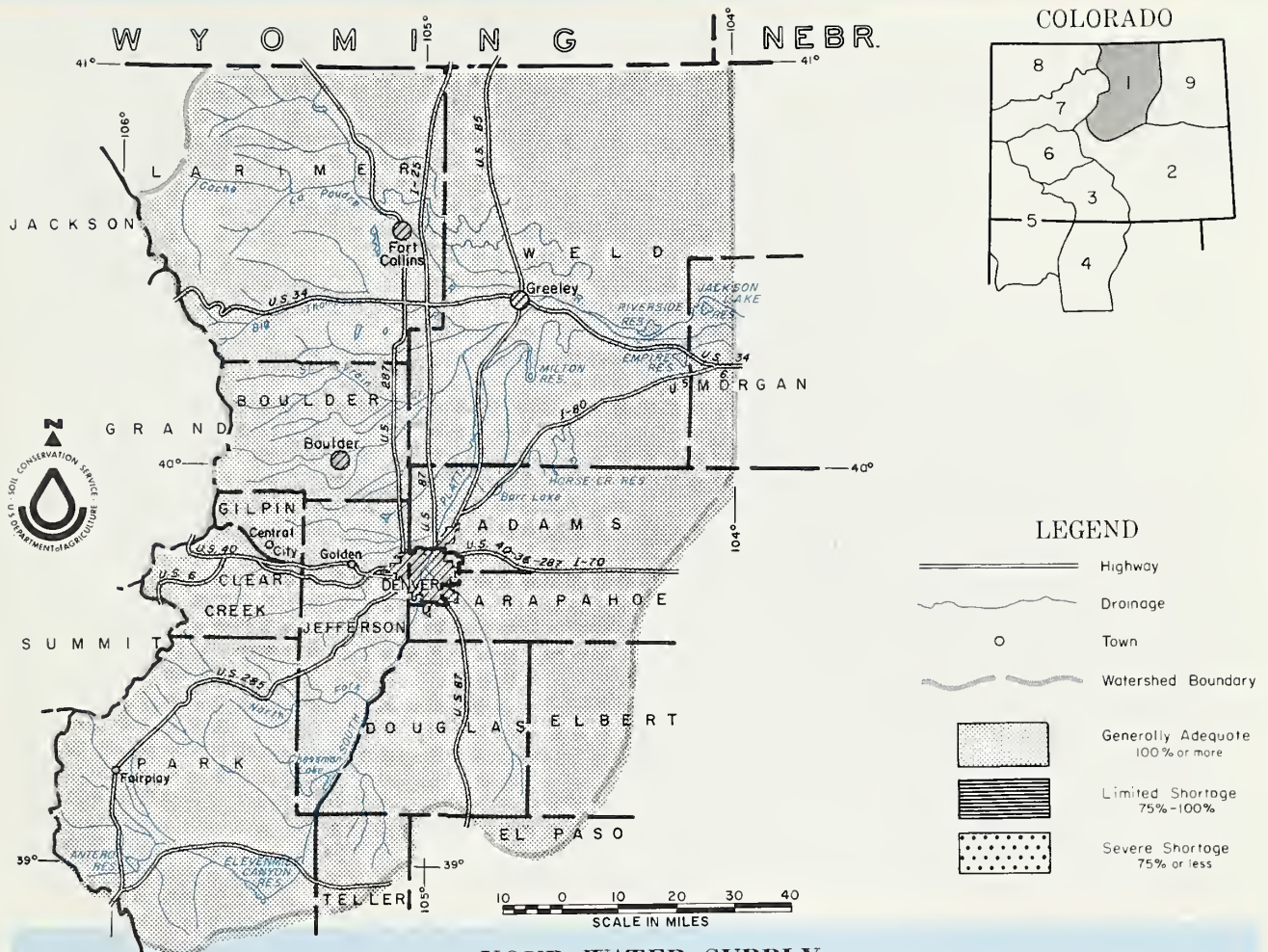
THE SNOWPACK IN NORTHERN NEW MEXICO IS DEFICIENT. SOME MELT HAS ALREADY TAKEN PLACE. FORECASTS WERE REDUCED ON ALL STREAMS. CARRY-OVER STORAGE IS GOOD. ELEPHANT BUTTE NOW CONTAINS 794,000 ACRE FEET. SOIL MOISTURE CONDITIONS ARE RATED AS POOR TO FAIR. ADDITIONAL SNOW IS NEEDED TO INSURE ADEQUATE WATER THIS SUMMER.

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of

APRIL 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

SNOWFALL DURING MARCH WAS SLIGHTLY BELOW NORMAL, HOWEVER, CURRENT SNOW IS STILL SLIGHTLY ABOVE NORMAL EXCEPT ON THE UPPER SOUTH PLATTE. HERE THE SNOWPACK FELL TO 90% OF THE 15 YEAR NORMAL. SUMMER FORECASTED FLOWS ARE ALSO NEAR NORMAL. ADDITIONAL SNOW WOULD ASSURE ADEQUATE WATER THIS SUMMER, HOWEVER, NO SEVERE SHORTAGE IS ANTICIPATED AT THIS TIME. SOIL MOISTURE CONDITIONS ARE RATED AS GOOD. CARRY-OVER STORAGE IS EXCELLENT.

This report prepared by

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
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STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average [†]
Big Thompson at Drake(1)	110	103	107
Boulder at Orodell	52	106	49
Cache La Poudre at Canyon Mouth (2)	245	99	247
Clear Creek at Golden(3)	127	100	127
St. Vrain at Lyons (4)	75	100	75

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average [†]
Big Thompson	5	133	110
Boulder	3	143	114
Cache La Poudre	8	109	111
Clear Creek	6	141	108
Saint Vrain	3	143	109
South Platte	3	105	90

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average [†]
Antero	33.0	15.9	15.9	13.9
Barr Lake	32.2	25.8	25.9	24.5
Black Hollow	8.0	4.6	4.4	3.9
Boyd Lake	44.0	44.0	37.5	37.8
Cache La Poudre	9.5	8.3	8.1	8.2
Carter Lake	108.9	100.7	100.1	95.4
Chambers Lake	8.8	3.8	4.7	3.4
Cheesman	79.0	54.7	39.4	58.5
Cobb Lake	34.3	19.1	20.9	15.1
Eleven Mile	97.8	97.0	91.8	87.5
Fossil Creek	11.6	9.1	9.5	8.1
Gross	43.1	29.7	20.7	27.8

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Bear Creek	Avg.	Fair
Coal Creek	Avg.	Fair
North Fork of South Platte	Avg.	Fair
North Fork of Cache La Poudre	Exc.	Fair
Ralston Creek	Avg.	Fair
Rock Creek	Avg.	Fair

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average [†]
Big Thompson	3	96	92
Boulder	1	100	86
Cache La Poudre	2	109	114
Clear Creek	2	99	103
Saint Vrain	3	96	92
South Platte	1	93	93

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average [†]
Halligan	6.4	6.4	6.4	5.2
Horsetooth	143.5	121.1	105.4	110.6
Lake Loveland	14.3	12.2	9.1	9.7
Lone Tree	9.2	8.3	9.0	6.7
Mariano	5.4	5.0	5.6	5.2
Marshall	10.3	7.7	4.0	4.7
Marston	18.0	16.4	15.6	15.4
Milton	24.4	17.1	16.7	14.2
Standley	42.0	35.2	24.7	18.9
Terry Lake	8.2	6.3	6.3	5.3
Union	12.7	12.7	10.9	9.8
Windsor	18.6	11.5	14.0	12.1

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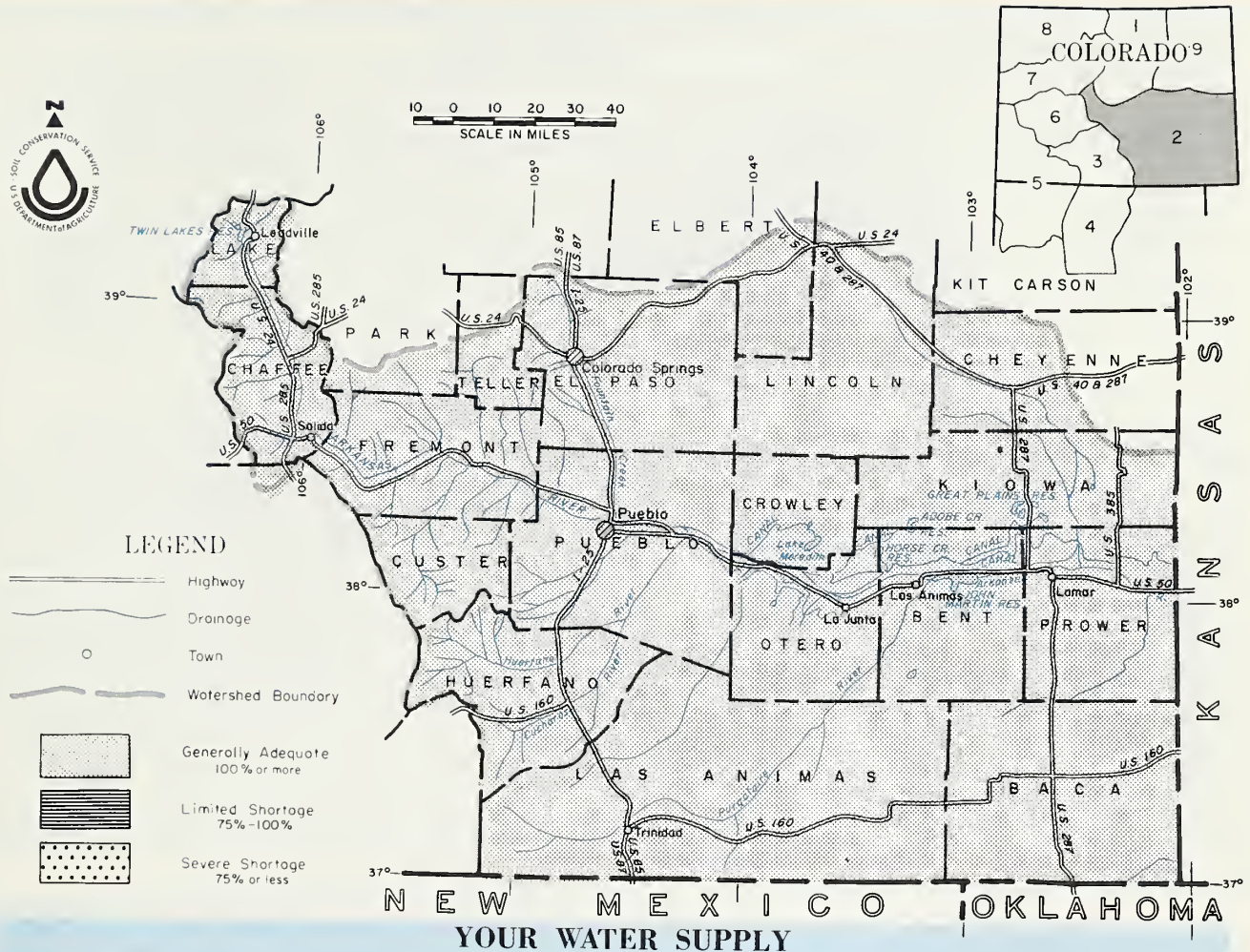


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as of

APRIL 1, 1974

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

THE SNOWPACK CONTINUES TO ACCUMULATE AT NEAR AVERAGE WATER CONTENTS SO
STREAMFLOW FORECASTS FOR THE COMING SEASON RANGE FROM 95% ON THE ARKANSAS TO
ABOUT 110% ON THE CUCARAS. RESERVOIR STORAGE IS 156% OF LAST YEAR'S AND
SLIGHTLY ABOVE THE 1958-72 AVERAGE. JOHN MARTIN CONTAINS 28,500 ACRE FEET
COMPARED TO 20,400 LAST YEAR. TURQUOISE CONTAINS 49,400 COMPARED TO 49,700.
SOIL MOISTURE CONDITIONS IN THE IRRIGATED AREAS ARE REPORTED AS GOOD.
AVERAGE TO ABOVE AVERAGE SNOWFALL IS NEEDED TO HAVE AVERAGE STREAMFLOW.

This report prepared by

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

DENVER COLORADO

ALAMOSA, COLORADO

LA JUNTA, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average [†]
Arkansas nr Pueblo (1)	275	95	290
Arkansas at Salida (1)	300	96	313
Cucharas nr La Veta	11	110	10
Purgatoire at Trinidad	39	103	38

(1) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Bush Ivonhoe, Bousteod, Divide, Twin Lakes and Homestake Tunnels and Ewing, Front Pass, Wurtz and Columbine ditches.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average [†]
Arkansas	10	119	115
Cucharas	1	78	139
Purgatoire	1	82	109

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa	Exc.	Fair
Fountain Creek	Exc.	Fair
Grape	Exc.	Fair
Hardscrable Creek	Exc.	Fair
Huerfano	Exc.	Fair
Monument Creek	Exc.	Fair

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average [†]
Arkansas	3	110	117
Cucharas and Purgatoire	1	67	67

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average [†]
Adobe	61.6	19.7	0.0	16.6
Clear Creek	11.4	3.4	6.2	8.1
Cucharas	40.0	6.6	0.0	2.9
Great Plains	150.0	51.0	34.2	61.3
Horse Creek	26.9	0.0	0.0	6.9

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average [†]
John Martin	353.9	28.5	20.4	90.8
Meredith	41.9	26.6	22.1	14.0
Model	15.0	7.4	8.0	3.6
Turquoise	120.5	49.4	49.7	---
Twin Lakes	57.9	36.0	26.0	26.1

+ 1958-1972 period.

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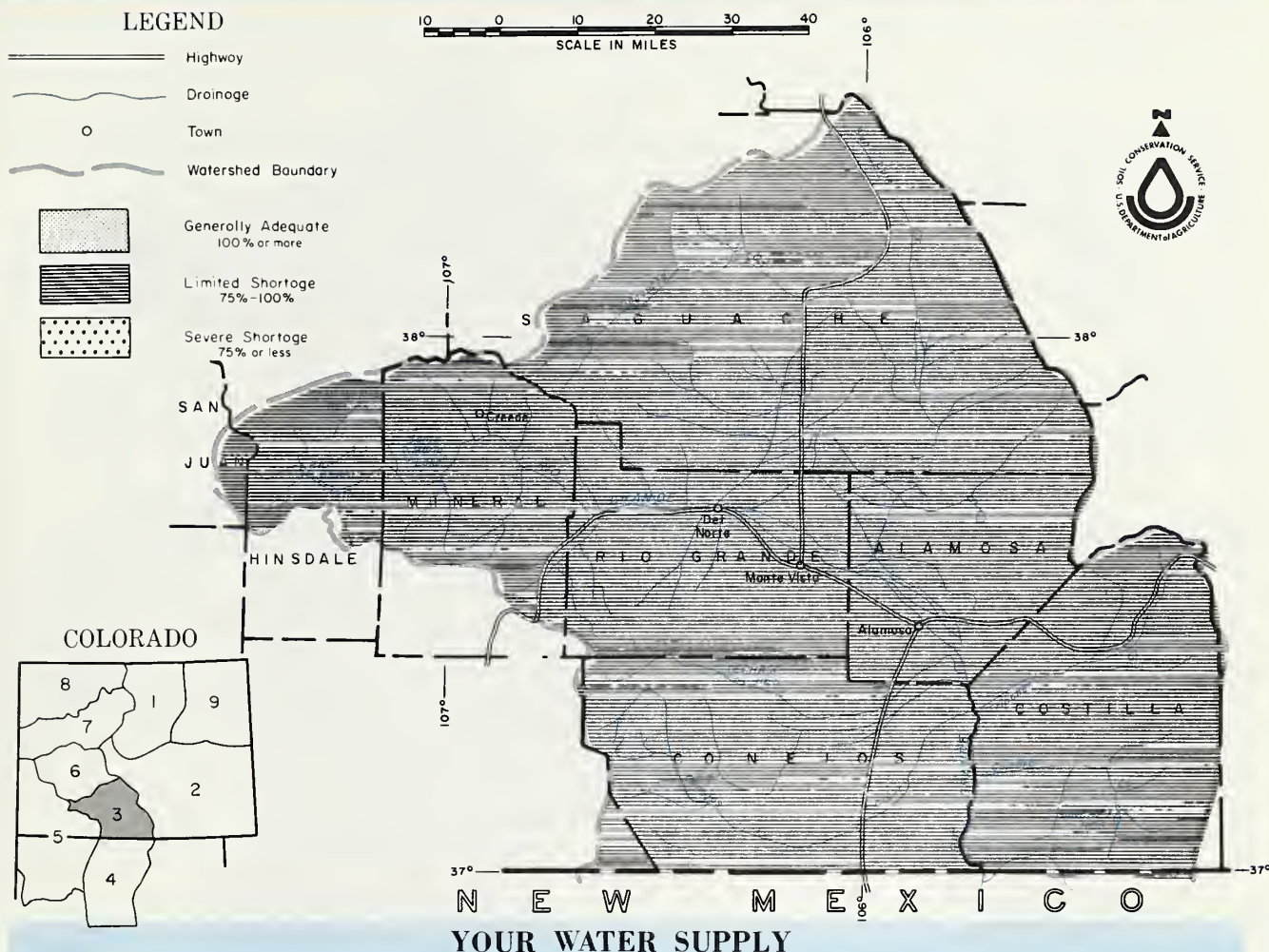


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO

as of
APRIL 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



THE UPPER RIO GRANDE SNOWPACK FELL OFF SLIGHTLY DURING MARCH. NEARLY ALL THE SNOW COURSES ON THIS DRAINAGE INDICATE BELOW NORMAL SNOW, SOME AREAS INDICATE LESS THAN 80%. SUMMER FLOWS SHOULD BE IN THE 80% RANGE IF FUTURE SNOWFALL IS AT LEAST NORMAL. MOUNTAIN SOILS ARE DRIER THAN USUAL. VALLEY SOILS ARE IN FAIR CONDITION. CARRY-OVER STORAGE IS EXCELLENT AND WILL PROVIDE GOOD SUPPLEMENTAL SUPPLIES THIS SUMMER.

This report prepared by

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DENVER, COLORADO

Issued by

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DENVER, COLORADO ALAMOSA, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average +
Alamosa abv Terrace	50	81	62
Conejos nr Mogote (1)	170	92	184
Culebra at San Luis (2)	14	82	17
Rio Gr. at 30 Mile Bridge (3)	95	79	121
Rio Gr. nr Del Norte(3)	370	79	468
South Fork at South Fork	90	78	115

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in storage in Sanchez Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Alamosa	2	53	85
Conejos	3	62	93
Culebra	2	61	111
Rio Grande	10	55	80

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Saguache Creek	Avg.	Fair
Sangre de Cristo Cr.	Avg.	Fair
Trinchera	Avg.	Fair

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Alamosa	2	76	83
Conejos	1	115	90
Culebra	1	67	67
Rio Grande	3	86	85

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Continental	26.7	2.9	5.6	5.8
Platoro	60.0	35.8	2.9	8.7
Rio Grande	45.8	27.6	20.3	18.4

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Sanchez	103.2	15.8	5.8	13.6
Santa Maria	45.0	7.5	5.1	6.7
Terrace	17.7	9.7	6.5	5.9

+ 1958-1972 period.

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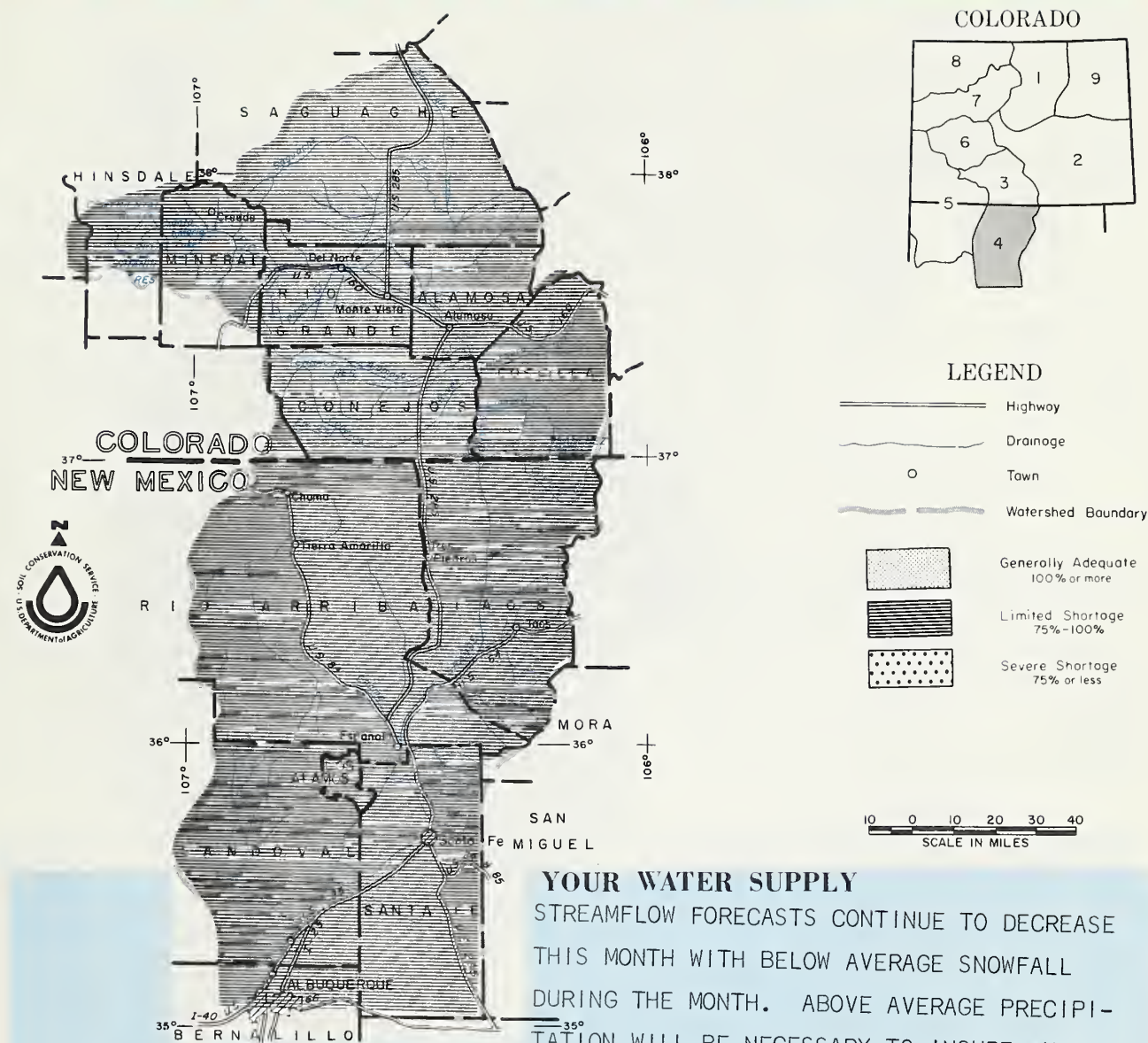


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

as of
APRIL 1, 1974

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CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



This report prepared by

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ALBUQUERQUE, NEW MEXICO
SANTA FE, NEW MEXICO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Mar-Jul

FORECAST POINT	FORECAST	% of Average	Average +
Costilla at Cost. (1)	16	84	19
Jemez River nr Jemez	25	86	29
Pecos at Pecos	42	102	41
Rio Chama at El Vado	162	85	190
Rio Gr. at Otowi (2)	450	86	526
Rio Gr. at San Mar (2)	220	62	355
Rio Hondo nr Valdez	11	79	14
Red R. at Mouth nr Questa	27	93	29
Santa Cruz at Cundiyo	11	85	13

The forecast of the Rio Grande at San Marcial is 34 % of the Average used by the Elephant Butte Irrigation District. (1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiquiu Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Embudo Creek	Avg.	Fair
Mora River	Avg.	Fair
Nambe Creek	Avg.	Fair
Rio Ojo Caliente	Avg.	Fair
Rio Pueblo de Taos	Avg.	Fair
Santa Fe Creek	Avg.	Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Pecos	1	19	65
Rio Chama	5	41	83
Rio Grande, N.M.	12	41	92
Rio Hondo	--	--	--
Red River	2	57	98

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Pecos	1	--	77
Rio Chama	1	92	85
Rio Grande	3	--	50
Red River	2	--	50

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Alamogordo	111	72	90	63
Caballo	344	70	84	65
Conchas	273	172	145	184
Elephant Butte	2195	794	373	394

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
El Vado	195	128	38	6
McMillen-Avalon	32	30	30	21
Heron	400	158	58	--

+ 1958-1972 period.

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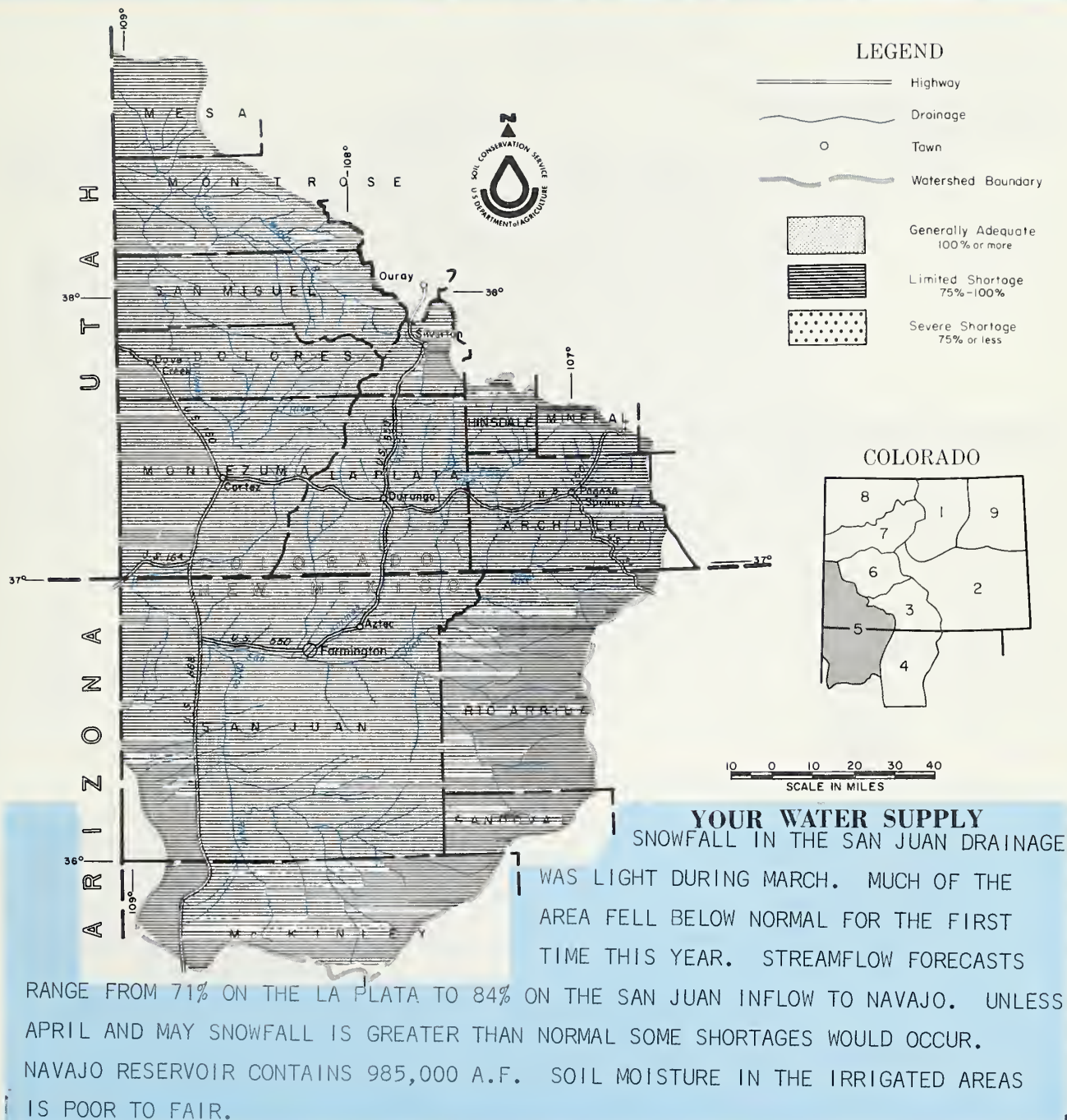


FIRST CLASS MAIL

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

APRIL 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND
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STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average +
Animas at Durango	320	76	423
Dolores at Dolores	180	78	232
La Plata at Hesperus	17	71	24
Los Pinos at Bayfield(1)	150	76	198
Piedra Cr. at Arboles	140	77	185
San Juan at Carracas	290	82	354
San Miguel at Placerville	100	77	130
Inflow to Navajo Rs. (1) (Apr-Jul)	500	84	597

(1) Observed flow plus change in storage in Vallecito Reservoir.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Animas	6	72	98
Dolores	4	90	98
San Juan	5	61	89

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Florida	Avg.	Fair
Mancos	Avg.	Fair

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Animas	3	79	82
Dolores	3	79	82
San Juan	3	79	82

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Groundhog	22	15	7	10
Lemon	40	19	21	20
Navajo	1696	985	960	532
Vallecito	126	73	73	57
Narraguinnep		11	17	
Jackson Gulch	10	7	5	5

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +

+ 1958-1972 period.

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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of

APRIL 1, 1974

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



STREAMFLOW FORECASTS WERE LOWERED THIS MONTH AS THE SNOWPACK DID NOT INCREASE AT THE AVERAGE RATE. FORECASTS ARE NOW 5 TO 10 PERCENT BELOW THE 1958-72 AVERAGE. LOW ELEVATION SNOW COURSES STILL HAVE ABOVE AVERAGE WATER CONTENT WHILE HIGH ELEVATION COURSES ARE NEAR AVERAGE. TOTAL RESERVOIR STORAGE IS SLIGHTLY BELOW LAST YEAR; HOWEVER, TAYLOR CONTAINS 63,000 ACRE FEET COMPARED TO 41,000 ACRE FEET LAST YEAR. SOIL MOISTURE CONDITIONS IN IRRIGATED AREAS ARE REPORTED AS GOOD.

This report prepared by

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
DENVER, COLORADO GLENWOOD SPRINGS, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average +
Gunnison inflow to Blue Mesa (1)	720	91	793
Gunnison nr Grand Junction (2)	1125	95	1184
N. Fork of Gunnison(3)	240	91	263
Surface Creek nr Cedaredge	14	88	16
Uncompahgre at Colona	125	93	134

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs. (3) Observed flow plus change in storage in Paonia Reservoir.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Gunnison	12	91	101
Surface Creek	3	77	89
Uncompahgre	3	77	100

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Taylor	Avg.	Avg.

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Gunnison	1	117	142
Surface Creek	1	73	86
Uncompahgre	2	95	114

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Blue Mesa	830	262	308	315
Morrow Point	121	115	115	114
Taylor	106	63	41	65

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +

+ 1958-1972 period.

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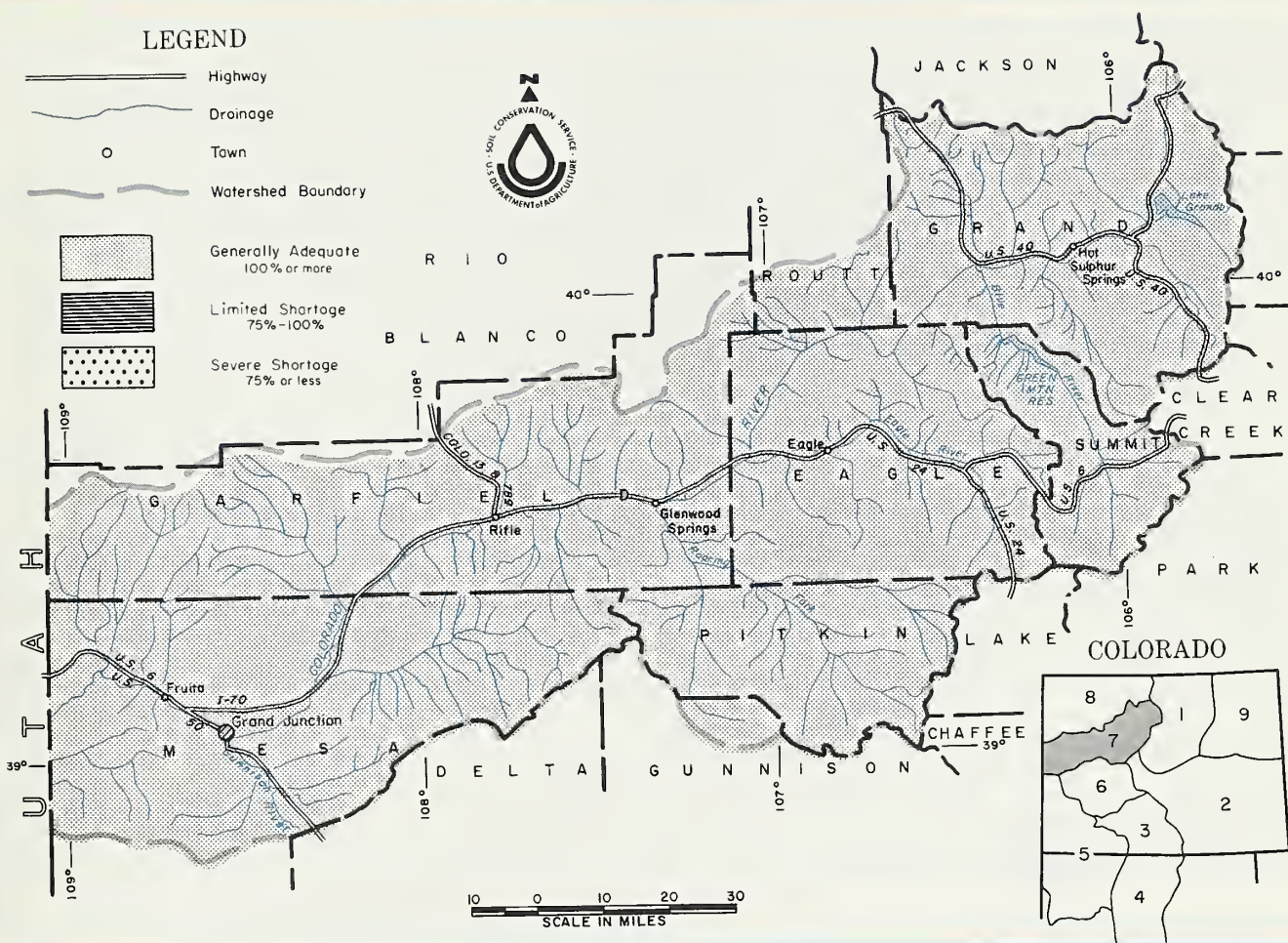
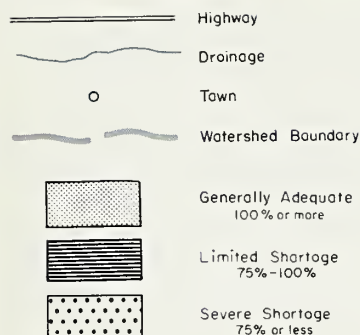
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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE COLORADO RIVER WATERSHED IN COLORADO as of

APRIL 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO

LEGEND



YOUR WATER SUPPLY

SNOW ON THE UPPER COLORADO RIVER DRAINAGE REMAINS NEAR NORMAL. THE HIGH SNOW IS ON THE WILLIAMS FORK AT 125% OF NORMAL AND THE LOW ON PLATEAU CREEK AT 91%. SUMMER FLOWS SHOULD BE REFLECTED BY THE SNOWPACK OR NEAR NORMAL. CARRY-OVER STORAGE IS ABOUT 114% OF THE 1958-72 PERIOD. MANY OF THESE RESERVOIRS PROVIDE WATER FOR THE EASTERN SLOPE OF THE MOUNTAINS. MOUNTAIN SOILS CONTAIN NEAR NORMAL MOISTURE. IF SNOWFALL REMAINS NEAR NORMAL, WATER SUPPLIES SHOULD BE ADEQUATE THIS SUMMER.

This report prepared by

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AREA CONSERVATIONIST
GLENWOOD SPRINGS, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average [†]
Blue inflow to Dillon	183	108	169
Blue inflow to Green Mountain (1)	320	108	297
Colo. R. inflow to Granby Res. (2)	225	99	228
Colo. R. nr Dotsero(3)	1400	98	1434
Roaring Fork at Glenwood Springs (4)	675	95	713
Wm. Fk. nr Parshall(5)	75	119	63
Willow Cr. inflow to Willow Cr. Res	54	115	47
Colorado nr Cameo (6)	2350	99	2370

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1), (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (5).

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average [†]
Blue River	8	139	110
Colorado	22	131	114
Plateau	3	80	91
Roaring Fork	7	98	101
Williams Fork	3	134	125
Willow	2	150	114

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Brush	Avg.	Avg.
Eagle River	Avg.	Avg.
Gypsum Creek	Avg.	Avg.

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average [†]
Blue River	1	109	100
Colorado	5	90	97
Roaring Fork	1	96	110
Willow	2	86	98

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average [†]
Dillon	254	239	219	231
Granby	466	371	319	213
Green Mountain	147	54	66	54
Homestake	43	21	15	15

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average [†]
Ruedi	101	57	55	59
Vega	32	15	12	12
Williams Fork	97	42	53	25
Willow Creek	9	6	8	6

+ 1958-1972 period.

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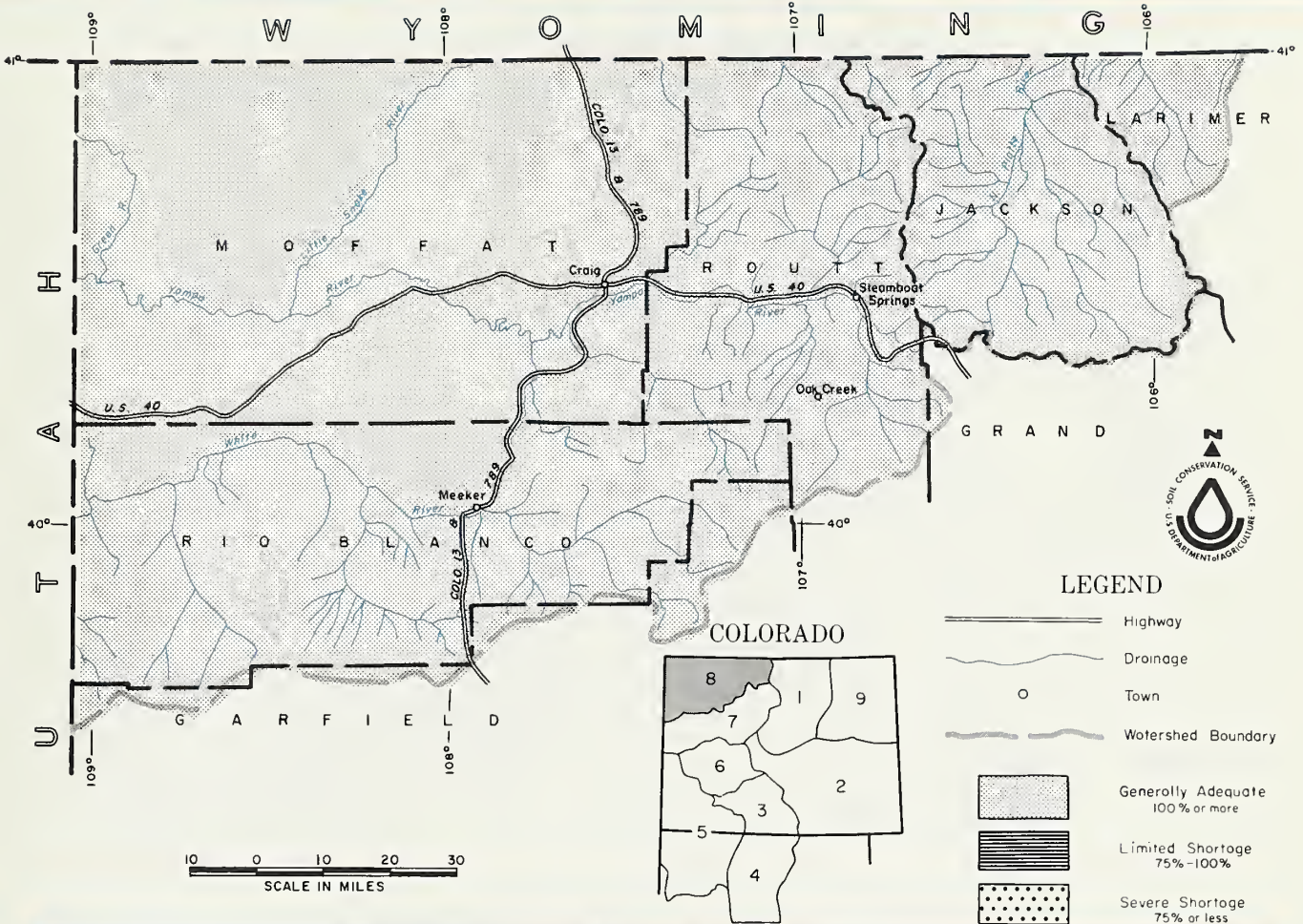


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of
APRIL 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

THE HIGHEST SNOWPACK IN THE STATE IS IN THE NORTHERN THIRD, NAMELY YAMPA, SNAKE, AND PLATTE WATERSHEDS. HERE SNOWPACK IS ABOUT 125% OF THE 15 YEAR NORMAL. SEVERAL SNOW COURSES NEAR THE WYOMING STATE LINE ARE 150% OF NORMAL. IF SNOW CONTINUES TO FALL AT LEAST A NORMAL RATE, THERE SHOULD BE NO WATER SHORTAGES THIS SUMMER. STREAMFLOW FORECASTS ON THE LITTLE SNAKE INDICATE 140% OF NORMAL SUPPLIES. LOW ELEVATION SNOW IS ALSO GOOD. VALLEY SOILS ARE WET.

This report prepared by

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STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average +
Elk at Clark	225	114	198
Laramie nr Woods	173	136	127
Little Snake at Lily	460	142	324
N. Platte at Northgate	370	154	240
White nr Meeker	290	98	295
Yampa nr Maybell	1080	119	905
Yampa at Steamboat Springs	320	117	274

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Canadian River	Exc.	Avg.
Hunt Creek	Exc.	Avg.
Illinois River	Exc.	Avg.
Michigan River	Exc.	Avg.
Oak Creek	Exc.	Avg.
Trout Creek	Exc.	Avg.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Elk	2	128	109
Laramie	3	123	117
North Platte	5	125	112
White	2	103	98
Yampa	6	135	119

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Laramie	2	109	114
North Platte	2	86	98
Yampa	1	86	129

+ 1958-1972 period.

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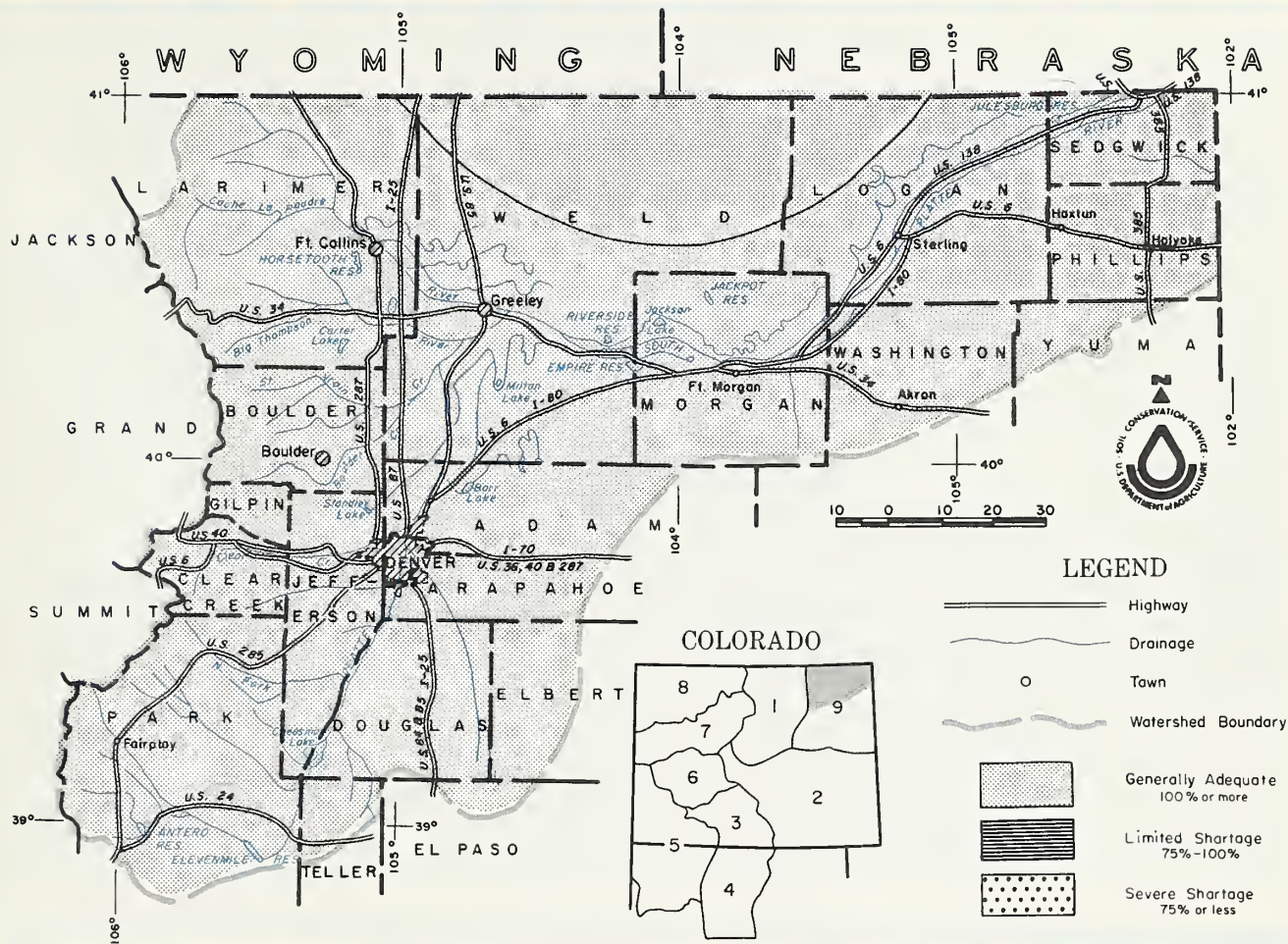


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

WATER SUPPLIES IN THE SOUTH PLATTE SHOULD BE NEAR AVERAGE DURING THE 1974 IRRIGATION SEASON IF SUCCEEDING MONTHS PRODUCE AT LEAST NORMAL PRECIPITATION. THE SNOWPACK ON THE UPPER PLATTE AND ITS NORTHERN TRIBUTARIES IS JUST ABOVE NORMAL. THE POOREST SNOW IS AT THE HEADWATERS OF THE SOUTH PLATTE. MOUNTAIN SOILS CONTAIN ABOUT NORMAL MOISTURE. REPORTS FROM THE IRRIGATED AREAS OF THE BASIN INDICATE NEAR NORMAL SOIL MOISTURE CONDITIONS. CARRY-OVER STORAGE IS JUST ABOUT NORMAL, BUT DOWN SLIGHTLY FROM LAST YEAR.

This report prepared by

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STERLING, COLORADO

STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average +
Big Thompson at Drake (1)	110	103	107
Boulder at Orodell	52	106	49
Cache La Poudre at Canyon Mouth (2)	245	99	247
Clear Cr. at Golden(3)	127	100	127
Saint Vrain at Lyons(4)	75	100	75

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
South Platte from Greeley to Fort Morgan	Avg.	Fair
South Platte from Fort Morgan to Sterling	Avg.	Fair
South Platte below Sterling	Avg.	Fair

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Big Thompson	5	133	110
Boulder	3	143	114
Cache La Poudre	8	109	111
Clear Creek	6	141	108
Saint Vrain	3	143	109
South Platte	3	105	90

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Big Thompson	3	96	92
Boulder	1	100	86
Cache La Poudre	2	109	114
Clear Creek	2	99	103
Saint Vrain	3	96	92
South Platte	1	93	93

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Carter	108.9	100.7	100.1	95.4
Cheesman	79.0	54.7	39.4	58.5
Eleven Mile	97.8	97.0	91.8	87.5
Empire	37.7	26.8	33.6	32.7
Horsetooth	143.5	121.1	105.4	110.6

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Jackson	35.4	32.7	33.7	33.9
Julesburg	28.2	19.8	23.1	21.8
Point of Rocks	70.0	69.8	70.0	65.7
Prewitt	32.8	26.3	27.9	22.6
Riverside	57.5	57.5	57.9	58.0

+ 1958-1972 period.

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APPENDIX I

SNOW COURSE MEASUREMENTS as of April 1, 1974

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-73
NORTH PLATTE BASIN					
<u>Laramie River</u>					
Deadman Hill	3/26	58	18.7	14.3	16.8
McIntyre	3/29	39	12.2	12.3	10.8
Roach	3/29	67	22.8	17.0	18.2
<u>North Platte River</u>					
Cameron Pass	3/28	80	30.8	27.8	28.7
Columbine Lodge	3/28	72	27.6	17.3	24.0
Northgate	3/28	25	8.0	8.5	6.5
Park View	3/26	35	10.8	8.8	9.2
Willow Cr. Pass (B)	3/26	41	13.8	10.5	12.7
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Baltimore	3/28	31	8.7	7.4	6.8
Boulder Falls	3/28	48	15.5	10.0	13.4
University Camp	3/28	63	21.0	14.1	19.3
<u>Big Thompson River</u>					
Deer Ridge	3/29	17	4.8	5.0	4.8
Hidden Valley	3/29	37	10.2	8.4	10.5
Lake Irene (B)	3/31	70	22.8	17.8	20.9
Long's Peak	3/28	43	13.2	7.1	10.9
Two Mile	3/29	54	15.5	11.6	15.1
<u>Cache La Poudre</u>					
Bennett Creek	3/27	32	9.8	8.6	---
Big South	3/28	0	0.0	3.1	2.1
Cameron Pass	3/28	80	30.8	27.8	28.7
Chambers Lake	3/28	28	10.8	9.6	9.6
Deadman Hill	3/26	58	18.7	14.3	16.8
Hourglass Lake	3/27	35	10.0	7.5	6.7
Joe Wright	3/28	74	26.5	23.6	---
Lost Lake	3/28	40	13.1	10.7	11.8
Pine Creek	3/26	6	1.6	4.3	1.9
Red Feather	3/26	28	9.0	9.1	6.9
<u>Clear Creek</u>					
Baltimore (B)	3/28	31	8.7	7.4	6.8
Berthoud Falls	3/28	50	16.4	11.7	13.6
Empire	3/28	35	9.9	5.6	7.8
Grizzly Peak (B)	3/28	60	19.2	12.2	18.9
Loveland Lift	3/29	62	17.3	15.0	21.1
Loveland Pass	3/29	63	18.8	12.0	15.7
<u>Saint Vrain River</u>					
Copeland Lake	3/30	13	4.2	4.2	4.4
Ward	3/27	25	6.5	5.4	6.5
Wild-Basin	3/30	44	13.3	7.2	11.2
<u>South Platte River</u>					
Como	3/28	19	5.2	7.3	---
Geneva Park	3/27	13	3.1	4.0	3.8
Horseshoe Mt.	3/27	36	9.8	8.7	---
Hoosier Pass	3/29	47	13.0	10.5	12.9
Jefferson Creek	3/28	26	7.1	7.6	9.2
Mosquito	3/28	25	8.3	9.0	---
Trout Creek Pass	3/27	21	5.5	6.5	---
ARKANSAS BASIN					
<u>Arkansas River</u>					
Bigelow Divide	3/26	35	10.8	7.2	6.5
Cooper Hill (B)	4/01	48	14.1	9.6	11.3
East Fork	3/26	36	11.3	7.5	9.8
Four Mile Park	3/29	17	5.3	5.0	5.1
Fremont Pass	3/26	58	17.5	13.3	16.2
Garfield	3/25	41	14.5	15.8	13.0
Hermit Lake	3/27	25	9.6	9.8	---
Monarch Pass	3/25	52	18.4	17.9	17.1
Twin Lakes Tunnel	3/28	35	11.6	9.9	10.7
Westcliffe	3/27	23	9.0	8.5	6.3
Tennessee Pass	3/29	33	9.7	8.2	10.6

NOTE: NS - No Survey

(B) - On Adjacent Drainage

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
<u>Cucharas River</u>					
Blue Lakes	NS			6.2	---
Cucharas Pass	3/28	25	10.2	10.0	---
LaVeta Pass (B)	3/28	28	10.3	13.2	7.4
<u>Purgatoire River</u>					
Bourbon	3/27	24	7.6	9.3	7.0
RIO GRANDE BASIN-COLO					
<u>Alamosa River</u>					
Silver Lakes	3/29	6	1.7	11.4	5.3
Summitville	3/27	59	18.5	26.6	18.6
<u>Conejos River</u>					
Cumbres	3/26	48	19.3	27.3	18.0
LaManga	3/26	52	18.4	24.2	---
Platoro	3/30	38	13.7	22.0	16.3
River Springs	3/28	8	3.0	9.2	4.6
<u>Culebra River</u>					
Brown Cabin	3/30	15	4.1	9.0	---
Cottonwood (B)				---	---
Culebra	3/22	23	7.2	15.4	8.4
LaVeta Pass (B)	3/28	28	10.3	13.2	7.4
Trinchera (B)	3/29	25	7.4	13.5	---
<u>Rio Grande</u>					
Cochetopa Pass	3/26	24	6.8	7.6	5.9
Grayback	3/26	46	15.6	21.7	---
Hiway	3/28	56	20.6	33.0	23.8
Lake Humphrey	3/28	15	3.8	10.7	6.1
Love Lake	3/27	23	6.3	15.2	---
Pass Creek	3/28	24	9.5	17.8	9.8
Pool Table	3/28	16	4.0	8.7	6.1
Porcupine	3/29	24	6.3	12.0	10.5
Santa Maria	3/28	6	1.5	6.6	3.6
Upper Rio Grande	3/28	16	4.6	13.8	7.5
Wolf Creek Pass	3/28	55	22.6	35.1	25.5
Wolf Cr. Summit (B)	3/28	71	25.8	39.7	28.3
RIO GRANDE BASIN - NM					
<u>Pecos River</u>					
Panchuela	3/28	3	1.3	6.9	2.0
<u>Rio Chama</u>					
Bateman	3/28	30	10.2	17.8	11.7
Capulin	3/28	6	2.0	8.3	2.7
Capulin Peak	3/28	8	3.0	9.0	3.4
Chama Divide	3/27	0	0.0	5.6	1.7
Chamita	3/27	17	6.9	12.7	7.2
<u>Rio Grande</u>					
Big Tesuque	3/26	13	4.5	12.7	4.6
Blue Bird Mesa	3/27	4	1.1	9.5	3.5
Cordova	3/27	30	9.7	17.4	10.1
Elk Cabin	3/28	8	4.3	7.8	2.5
Hopewell	3/27	46	17.7	22.1	---
LaCueva	3/29	11	4.1	10.7	---
Pajarito	3/28	0	0.0	1.0	0.0
Pajarito Peak	3/28	0	0.0	2.8	0.3
Payrole	3/28	15	6.3	12.2	6.8
Quemazon	3/27	28	9.3	20.7	9.0
Rio En Medio	3/26	27	9.7	16.7	7.4
Sandoval	3/27	10	3.6	14.6	4.2
Taos Canyon	3/26	14	4.3	8.4	3.9
Teakettle	3/27	23	8.1	13.0	---
Tres Ritos	3/27	7	2.2	11.1	4.8
<u>Rio Hondo</u>					
Taos Powderhorn	3/27	55	19.8	---	---
<u>Red River</u>					
Hematite Park (B)	3/25	10	2.9	7.1	3.5
Red River	3/25	19	6.0	8.6	5.6
Red River #2	3/25	13	4.7	9.3	---

APPENDIX I

SNOW COURSE MEASUREMENTS as of April 1, 1974

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
SAN JUAN-DOLORES BASIN					
<u>Animas River</u>					
Cascade	3/27	22	8.1	19.1	10.2
Lemon	3/28	11	4.1	15.7	---
Mineral Creek	3/27	36	11.8	19.9	15.4
Molas Lake	3/27	31	10.7	16.3	12.6
Purgatory	3/27	41	13.9	31.8	---
Red Mt. Pass (B)	3/27	69	25.3	35.1	31.5
Silverton Sub-Sta.	3/27	15	5.5	13.0	5.2
Spud Mountain	3/27	47	16.8	30.8	23.1
<u>Dolores River</u>					
Lizard Head	3/28	46	16.3	22.4	17.2
Lone Cone	3/29	43	16.8	18.9	---
Rico	3/28	10	4.4	13.1	6.1
Telluride	3/28	19	7.3	10.6	6.5
Trout Lake	3/28	40	14.5	19.5	13.7
<u>San Juan River</u>					
Chama Divide (B)	3/27	0	0.0	5.6	1.7
Chamita (B)	3/27	17	6.9	13.0	7.2
Upper San Juan	3/28	62	26.1	40.3	28.6
Wolf Cr. Pass (B)	3/28	55	22.6	35.1	25.5
Wolf Cr. Summit	3/28	71	25.8	39.7	28.3
GUNNISON BASIN					
<u>Gunnison River</u>					
Alexander Lake	3/27	53	19.2	26.5	22.8
Blue Mesa	3/28	25	8.6	7.6	7.2
Butte	3/28	47	15.6	13.4	---
Cochetopa Pass (B)	3/26	24	6.8	7.6	5.9
Crested Butte	3/28	42	16.2	14.1	13.0
Keystone	3/28	56	21.1	19.8	20.0
Lake City	3/25	28	8.0	7.9	8.0
Mesa Lakes (B)	3/29	45	16.1	20.4	17.6
McClure Pass	3/29	37	13.9	19.2	15.1
Park Cone	3/26	33	9.7	8.5	10.6
Park Reservoir	3/28	56	21.6	27.3	23.8
Porphyry Creek	3/25	51	18.4	18.7	16.9
Tomichi	3/25	42	15.4	14.6	12.6
<u>Surface Creek</u>					
Alexander Lake	3/27	53	19.2	26.5	22.8
Mesa Lakes (B)	3/29	45	16.1	20.4	17.6
Park Reservoir	3/28	56	21.6	27.3	23.8
<u>Uncompahgre River</u>					
Ironton Park	3/28	40	15.6	16.9	10.2
Red Mountain Pass	3/27	69	25.3	35.1	31.5
Telluride (B)	3/28	19	7.3	10.6	6.5
COLORADO BASIN					
<u>Blue River</u>					
Blue River	3/29	37	9.4	8.5	8.5
Fremont Pass	3/26	58	17.5	13.3	16.2
Frisco	3/28	26	7.4	6.3	7.4
Grizzly Peak	3/28	60	19.2	12.2	18.9
Hoosier Pass (B)	3/29	47	13.0	10.5	12.9
Shrine Pass	3/28	63	20.6	14.7	18.1
Snake River	3/28	30	10.0	5.2	7.9
Summit Ranch	3/27	30	9.5	6.1	7.1

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
<u>Colorado River</u>					
Arrow	3/28	55	17.8	12.6	13.2
Berthoud Pass	3/27	64	21.0	14.4	15.9
Berthoud Summit	3/28	69	21.5	16.3	19.7
Cooper Hill	4/01	48	14.1	9.6	11.3
Fiddler Gulch	3/27	50	15.0	11.3	14.5
Glenmar Ranch	3/26	37	11.7	7.8	8.5
Gore Pass	3/27	31	10.3	9.3	10.2
Grand Lake	3/31	36	10.0	7.5	8.2
Lake Irene	3/31	70	22.8	17.8	20.9
Lapland	3/26	44	12.8	8.3	10.4
Lulu	3/28	66	22.9	16.4	18.7
Lynx Pass	3/27	40	12.7	12.1	12.8
McKenzie Gulch	3/28	19	5.8	6.2	5.0
Middle Fork	3/26	40	11.6	9.4	9.9
Milner	3/31	47	13.7	10.6	13.6
North Inlet	3/31	31	8.7	7.9	8.7
Pando	3/26	34	10.3	8.8	10.3
Phantom Valley	3/31	35	9.3	9.3	10.8
Ranch Creek	3/28	43	13.5	9.3	9.9
Tennessee Pass (B)	3/29	33	9.7	8.2	10.6
Vail Pass	3/28	59	19.8	14.0	17.3
Vasquez	3/28	54	16.4	10.6	12.9
<u>Roaring Fork River</u>					
Aspen	3/29	39	19.9	17.7	17.1
Independence Pass	3/28	47	14.0	14.3	17.5
Ivanhoe	3/28	63	22.4	18.0	18.1
Kiln	3/28	49	16.8	10.5	---
Lift	3/29	48	16.0	17.0	17.8
McClure Pass	3/29	37	15.0	19.2	15.1
Nast	3/28	23	8.0	6.3	5.6
North Lost Trail	3/29	28	12.4	16.2	14.6
<u>Williams Fork River</u>					
Glenmar Ranch	3/26	37	11.7	7.8	8.5
Jones Pass	3/27	60	19.1	14.4	15.5
Middle Fork	3/26	40	11.6	9.4	9.9
<u>Willow Creek</u>					
Granby	3/26	26	9.2	4.8	7.5
Willow Cr. Pass	3/26	41	13.8	10.5	12.7
<u>Plateau Creek</u>					
Mesa Lakes	3/29	45	16.1	20.4	17.6
Park Reservoir	3/28	56	21.6	27.3	23.8
Trickle Divide	3/28	61	23.8	29.0	25.9
YAMPA BASIN					
<u>Elk River</u>					
Elk River	3/28	53	19.3	14.7	17.8
Hahn's Peak	3/28	41	15.1	12.2	13.7
<u>White River</u>					
Burro Mountain	3/28	42	15.5	18.9	17.2
Rio Blanco	3/27	45	17.0	12.6	15.7
<u>Yampa River</u>					
Bear River	3/27	41	11.9	9.5	11.2
Buffalo Pass	3/26	128	49.6	36.3	---
Columbine (B)	3/28	72	27.6	17.3	24.0
Crosho	3/27	49	15.4	12.6	---
Dry Lake	3/26	65	24.6	19.0	20.0
Lynx Pass (B)	3/27	40	12.7	12.1	12.8
Rabbit Ears	3/28	84	31.9	22.8	25.9
Yampa View	3/28	49	20.0	14.7	14.6

NOTE: NS - No Survey
(B) - On Adjacent Drainage

APPENDIX II

SOIL MOISTURE MEASUREMENTS as of April 1, 1974

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
NORTH PLATTE BASIN					
<u>North Platte River</u>					
Muddy Pass	3/29/74	11.1	7.6	7.9	6.6
Willow Pass	4/01/74	9.5	5.4	7.2	6.7
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Alpine Camp	3/21/74	6.9	3.2	3.2	3.7
<u>Big Thompson River</u>					
Beaver Dam	3/21/74	7.1	3.4	3.3	3.5
Guard Station	3/21/74	6.9	3.0	3.4	3.6
Two Mile	3/21/74	4.9	4.6	4.8	4.8
<u>Clear Creek</u>					
Clear Creek	3/27/74	9.5	5.6	5.2	5.4
Hoop Creek	3/27/74	4.9	2.6	3.1	2.6
<u>Cache La Poudre River</u>					
Feather	3/26/74	10.1	5.7	4.8	4.5
Laramie Road	3/28/74	12.4	7.3	7.1	6.9
<u>South Platte River</u>					
Hoosier Pass	3/29/74	7.8	4.1	4.4	4.4
Kenosha Pass	NR	4.4	---	2.2	2.2
ARKANSAS BASIN					
<u>Arkansas River</u>					
Garfield	3/25/74	6.7	4.9	4.6	3.6
Leadville	3/26/74	7.8	3.6	3.6	3.6
Twin Lakes Tunnel	3/26/74	4.5	2.6	2.5	2.3
RIO GRANDE BASIN - COLORADO					
<u>Conejos River</u>					
Mogote	3/25/74	10.7	5.5	4.8	6.1
<u>Rio Grande</u>					
Bristol View	3/27/74	6.1	4.4	4.9	3.6
LaVeta Pass	3/25/74	11.9	5.8	8.6	8.7
RIO GRANDE BASIN - NEW MEXICO					
<u>Rio Chama</u>					
Bateman	3/28/74	6.7	1.8	---	3.1
Chamita	3/27/74	8.0	4.6	5.0	5.4
<u>Rio Grande</u>					
Aqua Piedra	3/27/74	7.2	1.4	---	4.5
Big Tesuque	3/27/74	3.7	1.7	---	2.2
Rio En Medio	3/27/74	3.5	0.4	---	1.4
Taos Canyon	3/26/74	3.3	2.3	---	2.3
<u>Red River</u>					
Red Summit	3/25/74	4.9	2.4	---	---

ALL PROFILES 4 FEET DEEP

APPENDIX II

SOIL MOISTURE MEASUREMENTS as of April 1, 1974

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
ANIMAS - SAN JUAN BASINS					
<u>Animas River</u>					
Cascade	3/27/74	9.1	3.6	5.1	6.0
Mineral Creek	3/27/74	5.7	3.2	3.0	3.2
Molas Lake	3/27/74	9.4	4.1	5.7	4.1
<u>Dolores River</u>					
Dolores	NR	19.6	---	18.2	8.6
Lizard Head	NR	11.8	---	2.5	5.4
Rico	NR	13.8	---	8.2	8.8
GUNNISON BASIN					
<u>Gunnison River</u>					
King	3/25/74	3.3	2.7	2.3	1.9
COLORADO BASIN (Mainstem)					
<u>Blue River</u>					
Blue River	3/29/74	4.2	2.5	2.3	2.5
<u>Colorado River</u>					
Berthoud Pass	3/27/74	3.9	2.7	3.2	2.6
Gore	4/01/74	4.9	2.5	2.7	2.7
Grand Mesa	3/28/74	12.5	8.5	11.6	9.9
Ranch Creek	3/29/74	8.7	6.5	5.7	5.3
Vail	3/27/74	12.3	8.0	8.0	8.5
<u>Roaring Fork River</u>					
Placita	3/29/74	9.3	7.4	7.7	6.7
YAMPA BASIN					
<u>Yampa River</u>					
Hahn's Peak	3/28/74	13.1	10.1	11.7	7.8

LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

STATE

Colorado State Engineer
New Mexico State Engineer
Nebraska State Engineer
Colorado State University Experiment Station
Rocky Mountain Forest and Range Experiment Station

FEDERAL

Department of Agriculture
 Forest Service
 Soil Conservation Service

Department of Interior
 Bureau of Reclamation
 Geological Survey
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Department of Commerce
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Atomic Energy Commission

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City of Boulder City of Fort Collins

WATER USERS ORGANIZATIONS

Arkansas Valley Ditch Association
Colorado River Water Conservation District

IRRIGATION PROJECTS

Formers Reservoir and Irrigation Company
San Luis Valley Irrigation District
Santo Morio Reservoir Company
Costilla Land Company
Uncompahgre Valley Water Users' Association
Twin Lakes Reservoir and Canal Company
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